WBLE-SL ► UECM2453-202301-EZZ ► Quizzes ► 2023UECM24530E3a ► Review of preview  Update								
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		2023UECM24530E3a						
		Start again						
Review of preview								
Started on	Saturday, 1 April 2023, 04:36 PM							
	Saturday, 1 April 2023, 04:37 PM							
	Time taken 24 secs							
	Marks 0/8  Grade 0 out of a maximum of 10 (0%)							
Grade	out of a maximum of 10 (0%)							
1 🕏	For a stock:							
Marks: 1		$S = 44; r = 0.031; \delta = 0$						
	An Asian arithmetic average price put	with strike price 43 on the stock pays based on 3 monthly stock prices. It is valued using a binomial tree with u =1.1, d = 0.9. Calculate the option value.						
	Answer:	× ·						
	J							
	Make comment or override grade							
	Incorrect Correct answer: 1.6819							
	Marks for this submission	: 0/1.						
		- '						
2 👺	For a stock:							
Marks: 1		$S = 74$ ; $r = 0.061$ ; $\delta = 0$						
	An Asian geometric average strike ca	ll on the stock pays based on 3 monthly stock prices. It is valued using a binomial tree with u =1.1, d = 0.9. Calculate the option value.						
	Answer:	X						
	·							
	Make comment or override grade							
	Incorrect Correct answer: 2.7318							
	Marks for this submission	: 0/1.						
3 🕏	For a RM-denominated Asian call opti	on on 100 Thai Babt						
Marks: 1								
	The continuously compounded     The continuously compounded	risk-free rate for Ringgit Malaysia is 0.055. risk-free rate for baht is 0.012.						
	<ul> <li>The current exchange rate is B</li> </ul>	100 = RM12.8.						
	<ul> <li>The option will pay, at the end of three years, the excess of the arithmetic average dollar value of 100 Bahts at the ends of each of the three years over RM1.15.</li> <li>An otherwise similar Asian put option costs RM2.37.</li> </ul>							
	Determine the value of the call option							
	becomine the value of the can option	· <del></del>						
	Angwari							
	Answer:	<u> </u>						
	Make comment or override grade							
	Incorrect							
	Correct answer: 13.2299							
	Marks for this submission	: 0/1.						

<b>4</b> ♥ Marks: 1	The underlying stock follows the The stock's volatility is 0.27. The continuously compounded The stock pays no dividends. The initial price of the stock is The price of the stock one mon	risk-free interest is 0.047.  77. th after the date of issue is 73.0. this after the date of issue is 75.0. the end of two months	au are given:		
		·			
<b>5</b> ♥ Marks: 1	<ul> <li>The stock's volatility is 0.27.</li> <li>The continuously compounded</li> <li>A 1-year 46.2-strike up-and-ou</li> </ul>	it call with and up-and-out barrier of 65 has a Black-Scholes price of 10.6945.  1-year 46.2-strike up-and-in call with an up-and-in barrier of 65	] <b>x</b>		
<b>6</b> ♥ Marks: 1	The current index value is 116: The index volatility is 47%. The continuously compounded  A 1-year 233-strike put option on a 1  Answer:  Make comment or override grade		call option on a 1214.0-strike put option that matures 1.5 years from now		
	Incorrect Correct answer: 101.66				
	Marks for this submission	: 0/1.			
		•			
<b>7</b>	Let x(t) be the value of €1 in terms of US dollars at time t. You are given that:  • The continuously compounded risk-free rate in US is 5.5%.  • Under the risk-neutral measure, the stochastic differential equation of x is  dx(t) = 0.025x(t)dt + 0.17d ~Z(t), x(0) = 0.9  where ~Z(t) is a standard Brownian motion under the risk-neutral measure.  • A call option that gives the option holder the right to pay \$0.02 six months from today to buy a call option that gives the the right to buy €1 using \$0.95 one year from now is costs \$0.044.  Calculate the price of a put option that gives the option holder the right to sell at \$0.02 six months from today a call that gives the right to buy €1 using \$0.95 one year from now				
	Answer:		] <b>x</b>		
	Make comment or override grade		_		

Incorrect Correct answer: 0.015439

Marks for this submission: 0/1.

8 © Marks: 1	A British company will receive \$1,000,000 at the end of 6 month. To hedge its currency risk, it buys an option allowing to exchange dollars for pounds at a rate of £0.6/\$. You are given:  • The spot exchange rate is £0.61/\$.  • The continuously compounded risk-free interest rate for dollars is 0.06.  • The continuously compounded risk-free interest rate for pounds is 0.046.  • The volatility of the exchange rate between the two currencies is 0.11.  • The Black-Scholes framework is assumed to apply to the currency rate.  Calculate the cost in pounds of the hedge				
	Answer:  Make comment or override grade		] <i>x</i>		
	Incorrect Correct answer: 16137 Marks for this submission: 0/1.				

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